

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"5859870".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L2	2	"EP 755130 A2"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L3	2	"EP 722227 A1"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L4	0	"WO 99/05798"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L5	0	99/05798	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L6	0	"99/05798"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L7	15	"05798"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L8	0	"PCT/IB98/00913"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L9	0	"09/857488"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L10	1134	time with space with diversity	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10

L11	0	time with space with diversity with cdma	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L12	101	time with space with diversity with cdma	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L13	10	time with space with diversity with interleaver	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L15	1365842	time with space with diversity with interleaver with delay wit quality	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L16	0	time with space with diversity with interleaver with delay with quality	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L17	8	(time with diversity) and (space with diversity) and interleaver and delay and quality and (coherence adj time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L18	8	(time with space with diversity) and interleaver and delay and quality and (coherence adj time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L19	12	(time with space with diversity) and interleaver and delay and quality and (coherence with time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L20	694	375/146	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L21	954	interleav\$3 with depth	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10

L22	10	L21 and L20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L23	2321	interleav\$3 and antenna\$1 and diversity	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L24	70	L20 and L23	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L25	19369	quality with requirements	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L26	3	L24 and L25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
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L28	20	L23 and L27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L29	1	L25 and L28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L30	20	L23 and L27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L31	11	L23 and L27 and quality	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10

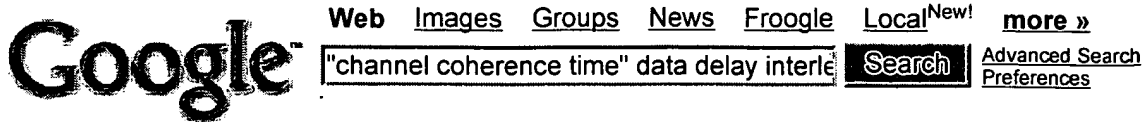
L32	1204	375/267	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L33	257	L23 and L32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L34	113	L23 and L32 and requirement\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
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L36	3	L23 and L32 and (quality with requirement\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L37	2	"09/464372"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
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L51	5	space with time with quality with interleav\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/27 10:10
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L53	113	L23 and L52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L54	40	L23 and L52 and requirement\$1 and quality	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L55	153	interleav\$3 and antenna\$1 and diversity and (requirements\$1 with quality)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
L56	3	L55 and L52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 10:10
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L61	177	square with binary with matrix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:10
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L63	2	(square with binary with matrix) and antennas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:10
L64	83	channel adj coherence adj time	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:10
L65	31	(channel adj coherence adj time) and (data with delay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:10
L66	5	(channel adj coherence adj time) and (data with delay) and interleaver	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:17
L67	12	(channel adj coherence adj time) and (data with delay) and interleav\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:10

L68	2	"5771461".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:19
L69	2	"5283780".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:20
L70	0	US5619524.pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:20
L71	2	"5619524".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:25
L72	1	"EP 1419605"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:25
L73	0	"EP1419605"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:25
L74	7	"1419605"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 10:25

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	155	interleav\$3 and antenna\$1 and diversity and (requirements\$1 with quality)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/11 19:35
L2	2828	375/316	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/11 19:35
L3	0	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/11 19:35



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Patent 5283780: Digital audio broadcasting system

... 2 wherein said first **interleaver** means is a matrix which receives **data** bit
 ... time **diversity**-block **interleaver** (deinterleaver) allows for correction ...
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Patent 5771461: Method and apparatus for power control of a first ...

... wherein the signal **quality** metric is derived from E_c/I_o information from ...
Interleaver 216 interleaves the input **data** symbols 214 at the symbol level. ...
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... of the **interleaver** 204 and the operation of a space **diversity** block 206. ...
 depth using the radio **channel coherence time** and the **data transfer delay** as ...
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... of **channel coherence time** and **interleaver** length as a measure ... **diversity**
 available. At worst, they introduce the same **delay** ...
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[PDF] Chapter 4

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... Fundamentally, **diversity** techniques exploit the same information from several
 ... feedback **delay**, channel predictions need to be done at each **diversity** ...
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 The channel **delay**. spread, fading statistics, and Doppler spectrum are typically ...

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... Abstract— The cyclic **delay diversity** is applied in OFDM receiver to ...

The **data** part of the convolution in (3) is same for all **diversity** ...

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... path **diversity**. In a typical UWB system, each. information-conveying symbol is

... tradeoffs arising with variable **channel coherence time**. ...

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... user **data** – can provide dramatic gains if the "**diversity** order" is high ...

interleaver span of only 20 milliseconds imposed by real timevoice **delay** ...

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... mizing spatial **diversity**. Such techniques include. **delay diversity** ... nas to

increase the **data** rate, but full spatial. **diversity** is usually not ...

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... components and then scrambled by a block **interleaver** of depth equal ...

channel coherence time and of the pilot carriers spacing of system ...

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... limit of infinite **diversity delay**-limited capacity equals the. ergodic capacity.

... **diversity** is provided by the per-stage **interleaver**. (See also ...

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... but with small correlation in fading statistics. The basic idea of **diversity**

is that, ... A typical example is a **delay diversity** scheme [17] [18] [19]. ...

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... tend to become uncorrelated is the "**channel coherence time**". ... of the user

data – can provide dramatic gains if the "**diversity** order" is high enough. ...

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From gwyn@paccomm.com Thu Aug 01 05:39:18 1996 Received: from ...

... have some serious **delay** constraints that limit the use of time **diversity**, ...

data rates, however, both time and frequency **diversity** is then employed. ...

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... These requirements on **data** rate, link **quality**, spectral efficiency, mobility,

... A typical example is the **delay diversity** coding introduced in [18]. ...

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... The multiplexing-**diversity** tradeoff (r,d) gives the information about the ...

on the **quality** of a transmission scheme for very high **data** rates. ...

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... We recall that an **interleaver** is a one-to-one permutation ... the **channel coherence time**, a transmitted **data** sequence may experience only a few ...

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... other channel parameters, the **channel coherence time** T ... the bandwidth efficient transmit **diversity** scheme and the **delay diversity** scheme.[8][9] ...

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... link **quality** and the delivery of information for the prediction of the ...

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... to enhance capacity, coverage and **quality**, among which space **diversity**, ie, **diversity** realized in space with ... information theoretic aspects are studied in this ...

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... up/down pattern that corresponds to **channel coherence time**. ... on the forward link

Ec/Io information obtained from ... step 623 the power reduction **delay** counter (PRDC ...

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... is large compared to the **channel coherence time** which guarantees ... accommodates over

10 .mu.sec **delay** spread—avoids ... training sequence overhead in **data** stream to ...

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...3.1 Power **Delay** Profile...78 3.3.2 **Coherence** Bandwidth...Spectrum and **Channel**
Coherence Time...Receiver **Diversity**...Frequency-Selective Fading **Channels**...107
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- ☐ 3. [OPTIMISING LINK QUALITY BY SPACE AND TIME INTERLEAVING](#)
HORNEMAN, Kari / KATZ, Marcos / YLITALO, Juha / NOKIA NETWORKS OY,
PATENT COOPERATION TREATY APPLICATION, Apr 2001
...that the **coherence time** defines how...a fading **channel**. The fading...applications are
delay sensitive...affect the **quality** of the transmission...available **diversity** re sources.
Quality represents...processing **delay** required...basis of a **time** slot, a burst...packet ba
sis. **Data** 200 of different...in a radio **channel** includes...operation of the **interleaver**
204 and the...of a space **diversity** block 206...regarding the **quality** and **delay**
requirements of the **data** 200 from...detecting a radio **channel quality** requirement...
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- ☐ 4. [Microsoft Word - WG8 WhitePaper gw_{13webB12391}-CS.doc](#)
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...MULTIDIMENSIONAL REAL-**TIME CHANNEL** SOUNDING...MEASUREMENT
DATA...battery life **time**), as well as **quality** of service...available **channel**
information...quantization, and **delay**. The techniques...multidimensional real-**time**
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...Propagation **Channel** Models 4-4...cdma2000 **Data** User Capacity...Multipath **Time Delay** Spread Susceptibility...a 3.75 MHz **channel** bandwidth...voice and **data** communications...propagation **channel** in an airport...environment. Receive **diversity** improves the...
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- ☐ **6. 1**
Mar 2002
...carrier, **diversity**, Space-time-coding, **channel** coding, equalisation...Transmit **Diversity** Technique...Very High **Data** Rates Over...Wireless **Channel**", invited...Space-Time Coded OFDM...approach to high **data** rate wireless...jointly (run-time) adaptive...schemes, **diversity**, modulation...
[http://www.vtt.fi/ele/research/tel/projects/windflexde...]
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- ☐ **7. asi.dvi**
Apr 2003
...represent the **channel** only for a fraction of the **time**. 2.1. Speech vs. **data**: The **delay** issue A relevant...achieving **diversity**. The "block-fading" **channel** model, introduced...the **channel coherence time** is much longer...introduce a **delay** constraint...wireless **data** networks...carry real-time speech (cellular...constrained-delay transmission...30). 2.2. **Diversity** Receiver...the fading-channel **quality**. Recently...
[http://www.engr.sjsu.edu/rmorelos/ee252s03/biglieri.pd...]
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- ☐ **8. No Title**
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...rates and **Quality** of Service...trade-off between **data** rate and...for a space-time **channel**, considering...provided the **channel coherence time** is large...Trade-off between **data** rate and...The maximum **data** rate in TCC...128 bits/channel use. The...increased **diversity** over time-invariant...
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- ☐ **9. MODE SELECTION FOR DATA TRANSMISSION IN WIRELESS COMMUNICATION CHANNELS BASED ON STATISTICAL PARAMETERS**
PAULRAJ, Arogyaswami, J. / IOSPAN WIRELESS, INC., PATENT COOPERATION TREATY APPLICATION, Mar 2002
...channels vary in **time**. Under good...wireless **channels** exhibit good...g., large **data** capacity, high signal **quality**, high spectral...short-term **quality** parameter...based on a **coherence time** of the wireless...communication **channel**. In another...based on a **delay time** required...encode the **data** at the transmit...indicated. The **time** variation of **channels** 22A, 22B...22A such as **data** capacity, signal **quality**, spectral...
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- ☐ **10. A TAXONOMY OF SPACETIME PROCESSING FOR**
May 1998
...transmit **diversity** and in some...of spacetime processing...physical **channel** that include angle, **delay** and Doppler...than the **coherence time**. The accuracy...trans mit **channel** estimation...reduce cochannel interference...maximizing spatial **diversity**. The output...Joint SpaceTime Approach...angle and **delay** spreads for...
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